

# OPERATING INSTRUCTIONS

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**CAR STEREO**

**FM/AM DIGITAL MEDIA PLAYER**

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**OPERATING INSTRUCTIONS**

**English**

**Welcome!**

Thank you for purchasing our company digital media player!  
To operate the unit correctly, please read the owner's manual  
carefully before using the unit. Keep these instructions and  
retain this booklet for future reference.



CAR STEREO

FM/AM DIGITAL MEDIA PLAYER

English

OPERATING INSTRUCTIONS

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## Notes on installation

English

☞ The unit is designed for **12V DC**, negative ground operation system only. Before installing the unit, make sure your vehicle is connected to **DC 12V** negative ground electrical system.

☞ The negative battery terminal must be disconnected before making connections, which can reduce damaging the unit due to short circuit.

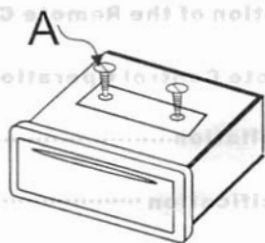
☞ Be sure to connect the color coded leads correctly according to the diagram. Incorrect connections may cause the unit malfunction or damage the vehicle's electrical system.

☞ Be sure to connect the speaker (-) leads to the speaker ( - ) terminal. Never connect the left and right channel speaker cables each other or to the vehicle body.

☞ Do not block vents or radiator panels. Blocking them will cause heat to build up inside and may result in fire.

☞ After the completion of the installation and begin to play the unit( including replacing the battery ),please press the **RESET** button on the front panel with pointed objects (such as ball-point pen)to set the unit to initial status.

☞ Remove the protection screw(A), before using of the unit.



☞ This unit can play the following discs only.

Type of disc	Label on the disc	Recorded material	Size of disc
<b>DVD</b>		Sound and moving Pictures	12cm/8cm
<b>VCD</b>		Sound and moving Pictures	12cm/8cm
<b>MP3</b>	<b>MP3</b>	Sound and moving Pictures	12cm/8cm
<b>MP4</b>	<b>MP4</b>	Sound and moving Pictures	12cm/8cm
<b>CD</b>		Sound only	12cm/8cm
<b>USB</b>			
<b>SD</b>	<b>SD</b>		

Note: ① The unit is compatible with DVD, VCD1, 0/2, 0/3, 0 DVCD, CD-RW, CD-R, PICTURE-CD version Disc.

② The manual conforms to DVD, VCD, MP3 and CD. If no DVD, VCD or MP3 on some models, you should ignore them. While enjoying DVD, VCD, MP3 and CD, the display will automatically identify the discs and indicate the corresponding words.

☞ Do not attempt to modify the unit, modifying the unit may cause an accident.

☞ Stop the vehicle before carrying out any operation that could interfere with your driving.

☞ Do not work in extreme high or low temperature inside the vehicle is between +60°C and -20°C before turning your unit on.

☞ To enjoy optimum sound and images while playing, handle the discs as follows:

--- Handle the disc by its edge to keep the disc clean, and do not touch the surface.



--- Do not use your CDs with paste residue or ink attached.



--- Do not use CDs with labels or stickers attached, which may leave a sticky residue while beginning to peel off. (Shown as picture)



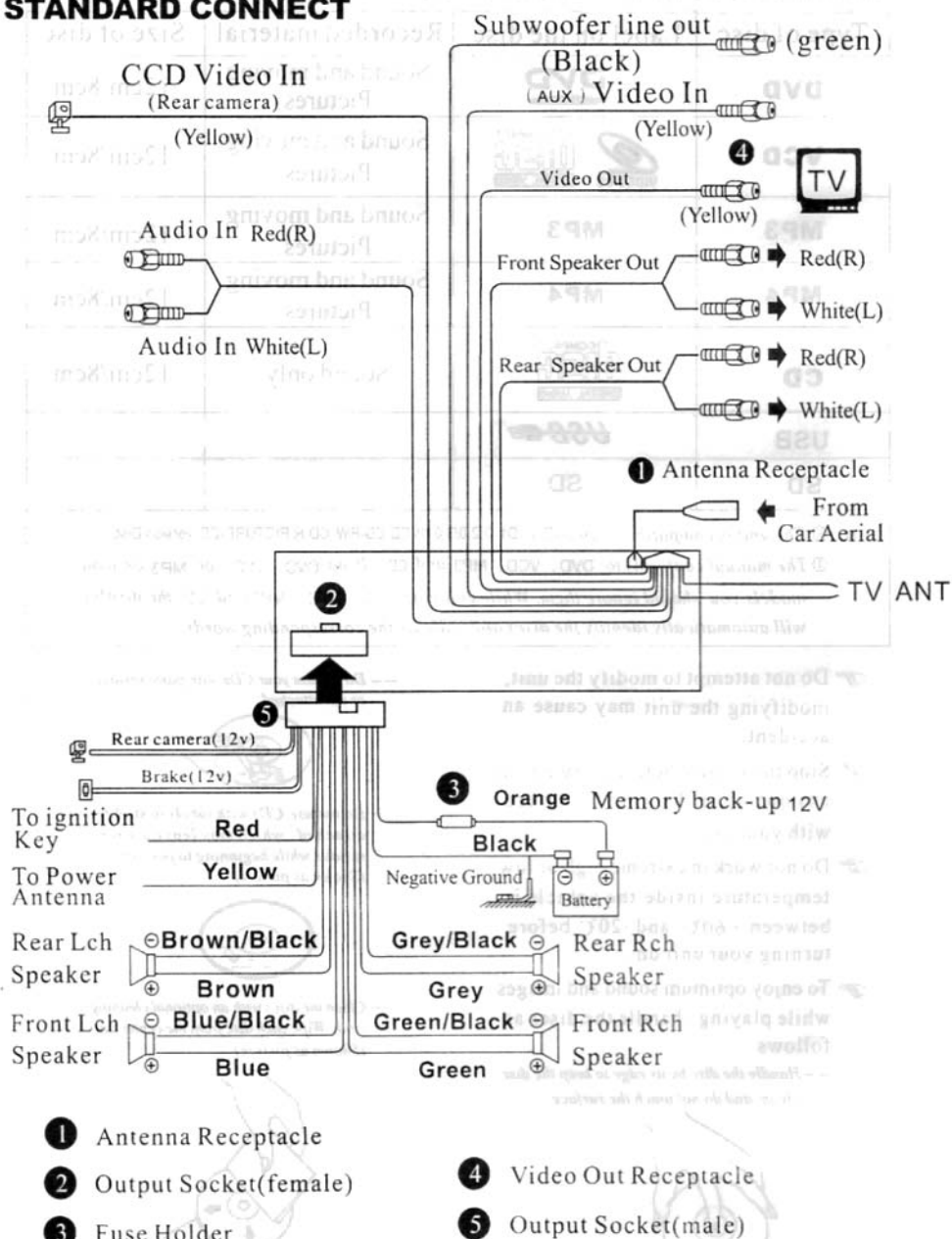
--- Clean the discs with an optional cleaning cloth. Wipe each disc from the center out. (Shown as picture)



# Wiring Diagram

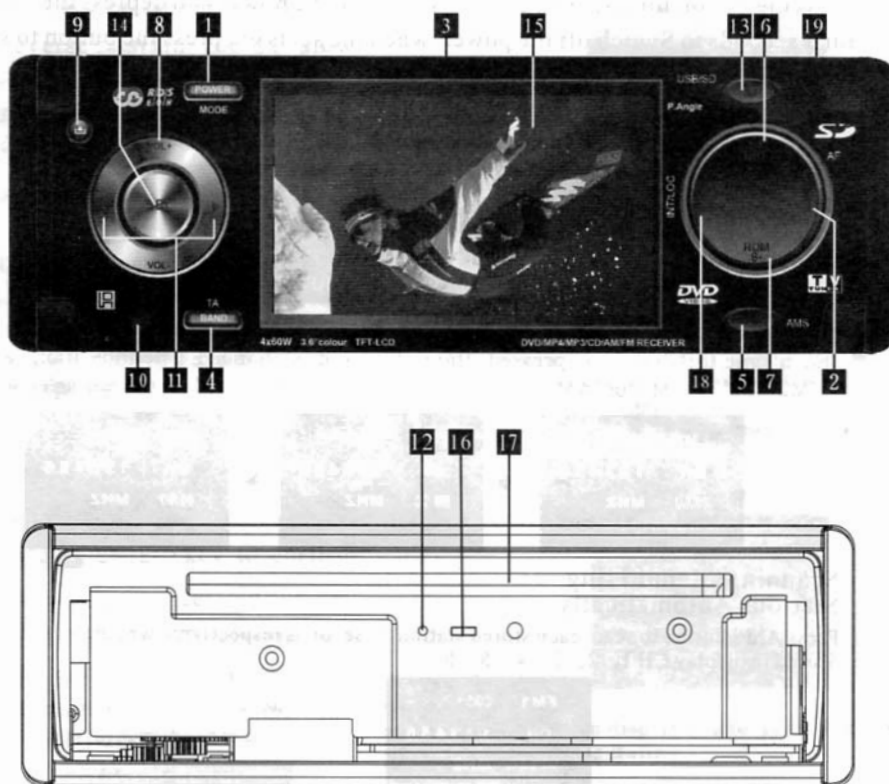
English

## STANDARD CONNECT



# Introduction for Key board

English



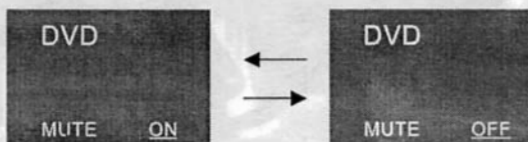
- |  |  |
|--|--|
| 1. Power On/Off /MODE                        | 11. Tuning/Selecting Tracks                      |
| 2. Mute Button/AF Button                     | 12. Reset Button                                 |
| 3. SD Socket                                 | 13. Eject Button/Adjust Angle                    |
| 4. Band Selector/P/N/TA Button               | 14. Setting the Sound Characteristics/Loud/Clock |
| 5. Pause/Play Button/AMS Button              | 15. 3.6" Wide TFT Colour LCD Screen              |
| 6. Preset station Memories Selection+/Repeat | 16. LED Lamp                                     |
| 7. Preset station Memories Selection-/Random | 17. Disc Slot                                    |
| 8. Volume Control                            | 18. PTY/Intro/TV Audio/Local                     |
| 9. Open/close button/Detaching panel button  | 19. USB Port                                     |
| 10. Remote Control Receptor                  |  |

## 1. Power ON/OFF/MODE

Press the button for less than 1 sec to switch on the power and depress the button for 3 seconds to Switch off the power. when the set is on, press the button to select the Radio/DVD/Aux/TV Sequentially.

## 2. Mute control

Press the button to mute volume control and "MUTE ON" will appear on the display.



## 4. Band selector

Each time this button is pressed, the radio band is changed. The indication "FM1" "FM2" "FM3" "AM1" or "AM2" will appear on the display according to your selection.

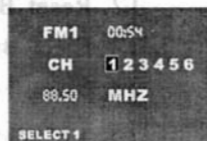


## Scanning/Memorizing Stations Automatically

Press AMS button to scan each stored station 5 seconds respectively which Stored in display CH 1, 2, 3, 4, 5, 6.

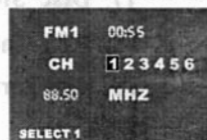


Press and hold AMS button for more than 3 seconds to activate automatically memory storing function. The radio automatically selects a station and has it stored in any one of the display CH 1, 2, 3, 4, 5, 6.



## LOC ON/OFF

Press this button to local and "LOC ON" will appear on the display.





## 5. Pause/Play Button

Press **5** (**▶||**) button to suspend the playback of CD, MP3, VCD, DVD.  
Press it again to return to normal playback mode.

## 6. Preset station Memories Selection.

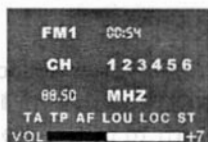
Press S- or S+ Knob to scan the memory from 1-6 preset stations.

Store the station to the memory keys.

Press >>> or <<< knob to select your desired station, press and hold the S+ or S- knob for few seconds till a flash number is shown on the TFT screen display, Then Press the S+ or S- shortly to move to the number icon that you want to stored and pres play /Pause knob to confirm. The station will be stored into it.

## 8. Volume control

VOLUME-press this button once, then Selected by VOL+ to decrease, or to increase volume level.



## 9. Open/close button / Detaching panel button

- Press this button to show the disc slot in the main panel.  
Then, press once to close the disc slot.
- To detach the front panel, press this button so that the panel slide down from vertical to horizontal position. Use thumb hold near the preset button between 3 and 4, and use other finger to hold the corrugated release button at the back of the front panel while pulling. After the panel is released, the slide down metal frame will automatically move backward until it locks to the original position.
- To re-attach the panel, put the front panel to the slide down metal frame by clipping it into place.

## 10. Remote Control Receptor

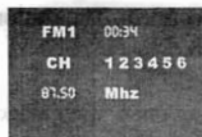
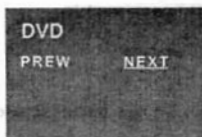
Receptor for the card remote commander. (for remote control version only)

- ★ **Note:** This window is used for the unit with remote control function. Without this function, you should ignore the operation contents about remote control function.

## 11. Tuning/Selecting Tracks

**Manual Tuning:** Press **[ ]** ( **+** **▶▶** or **◀◀** **-** ) button continuously to select a station upward or downward respectively.

**Automatic Tuning:** Press and hold **[ ]** ( **+** **▶▶** or **◀◀** **-** ) button for more than 3 seconds, the radio automatically searches a station upward or downward respectively and plays when it finds a station.



## 12. Reset Button

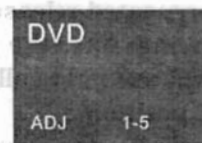
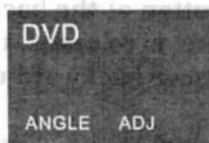
Operating the unit for the first time or after replacing the car battery, you must reset the unit. Press **[ ]** (RES) button with a pointed object (such as a ballpoint pen) to set the unit to initial procedure.

- ★ **Note:** When some errors occur in the LCD display, you can also press RESET button to resume to normal. And it will erase the clock setting and some memorized functions.

## 13. Eject Button/TFT PANEL ANGLE

Press the eject button will eject the disc.

Press and hold P.Angle button for 3 seconds to activate automatically TFT pane adjust function.

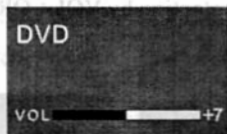


## 14. Setting the Sound Characteristics/Loud/EQ/Clock

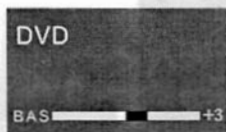
Audio level control (when pushing one after another)/Loud

Press the button shortly one after another to show "VOL/BAS/TRE/BAL/FAD/LOUD/EQ OFF/TIME MODE"

- **VOLUME**-press this button once, then Selected by VOL+ to decrease, or VOL- to increase volume level.



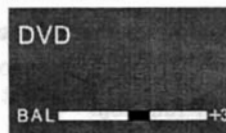
- **BASS** -press this button once, then Selected by VOL+ to decrease, or VOL- to increase bass level.



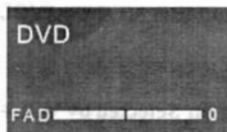
- **TREBLE** - press this button once, then Selected by VOL+ to decrease, or VOL- to increase treble level.



- **BALANCE** -press this button once, then Selected by VOL+ for VOL- to level balance of speaker right and left.



- **FADER** -press this button once, then Selected by VOL+ or VOL- to level fader of speaker front and rear:



**LOUD**-press this button once the selection by VOL+ OR VOL-



**EQ MODE:**

Press this button once the selection by VOL+ or VOL-

POP → ROC → CLA



**TIME MODE:**

Press this button once, then selection by SEL Pressed long 3 seconds in time mode, the selection VOL+ or VOL-



## RDS MODE

**AF(Alternative Frequencies)**

Press and hold AF button AF switching mode is selected and the state of AF switching mode is display by AF segment in display.

**TA(Traffic Annoucement)**

Press and hold TA button, it is engaging whether TA mode on or off.

When TA mode is on and a traffic announcement.

**PTY mode**

Press and hold PTY button, it is PTY function.

--MUSIC group--

1. POP M, ROCK M
2. EASY M, LIGHT M
3. CLASSICS, OTHER M
4. JAZZ, COUNTRY
5. NATION M, OLDIES
6. FOLK M.

--SPEECH group

1. NEWS, AFFAIRS, INFO
2. SPORT, EDUCATED, DRAMA
3. CULTURE, SCIENCE, VARIED
4. WEATHER, FINANCE, CHILDREN
5. SOCIAL, RELIGION, PHONE IN
6. TRAVEL, LEISURE, DOCUMENT

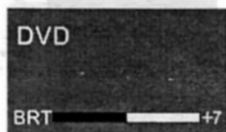
## 4. TFT Video setup

When pressed long, SEL key it is activated as cyclical mode of following functions for user's selection.

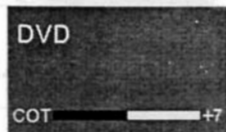
**BRT—HUE—COR—COT**

BRT/HUE/COR/CON-level is selected by VOL+ or VOL- key.

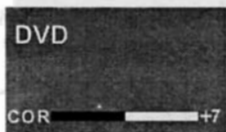
- **BRIGHTNESS**-press this button once, then Selected by VOL+ to decrease, or VOL- to increase BRIGHTNESS level.



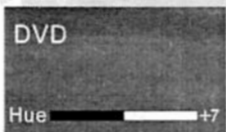
- **CONTRAST** -press this button once, then Selected by VOL+ to decrease, or VOL- to increase CONTRAST level.



- **COLOR** -press this button once, then Selected by VOL+ to decrease, or VOL- to increase COLOR level.



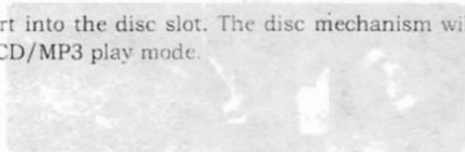
- **Hue** -press this button once, then Selected by VOL+ to decrease, or VOL- to increase Hue level.



## 16. LED Lamp

## 17. Disc Slot

Holding the disc to insert into the disc slot. The disc mechanism will automatically engage into DVD/VCD/CD/MP3 play mode.



## 18. Preset Stations/AMS

### TV Tuning Operation

At First, press MODE knob to switch the set to TV mode, then press and hold "AMS" (Auto Memory System) to auto-scan TV station from low frequency to high frequency and TV station will be automatically stored in to memory. When Auto-Tuning is done, you can use the remote control 0-9 key to select your desired station.



### Manual Scan TV signal

Press the AMS knob to scan the TV signal manually.

### TV Band Selection.

When pressed BND key NTSC → PAL → SECAM → PAL/M → PAL/N.

### TV Audio selection

When press PTY/LOC button PAL I → PAL DK → PAL BG → SECAM L  
SECAM I → SECAM DK → SECAM BG

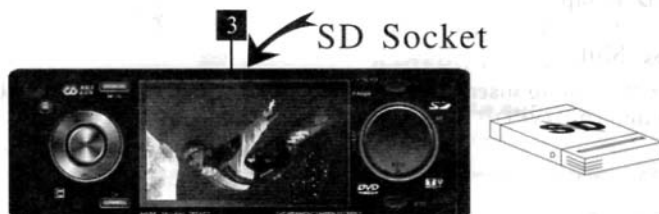
### USB Port

The unit can be connected to a USB flash memory (B) for playing MP3 songs through the USB cable (A) (provided together with radio) from mini size to the normal standard USB size.



### SD Socket

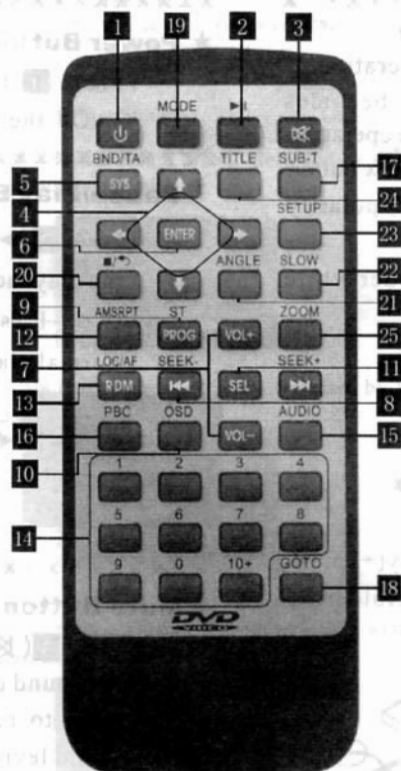
Holding the SD card to insert into the SD socket. The mechanism will automatically engage into the SD mode.



# Location of the Remote Control

English

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- 1 Power Switch
- 2 Pause/Play Button
- 3 Mute Button
- 4 Selecting Menu Button
- 5 Band/System Switch/TA
- 6 Enter Button
- 7 Volume Control
- 8 Tuning/Selecting Tracks/F.F/REW
- 9 Program Playing
- 10 On-Screen Display
- 11 Setting the Sound Characteristics
- 12 Repeat Playing

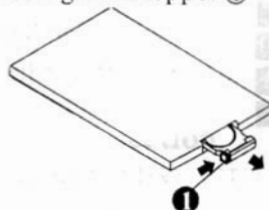
- 13 Random Playing/LOC/AF
- 14 Number Button
- 15 Audio-Setting
- 16 PBC Menu
- 17 Subtitle-Setting
- 18 Playing Time-Setting
- 19 Mode Switch
- 20 Stop/Reverse Button
- 21 Angle-Setting
- 22 Slow-motion Play
- 23 Setup Menu
- 24 Menu-Display
- 25 Zoom-Setting

XXXXXXXXXXXXXXXXXXXX

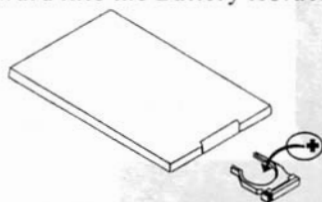
## Replacing the Battery

- ★ When the range of the operation of the card remote control becomes short or no functions while operating. Replace the battery with a new button cell. Make sure the battery polarity before replace.

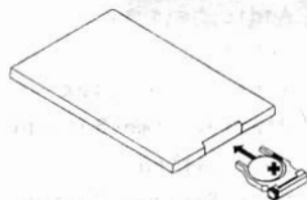
1. Pull out the Battery Holder while pressing the Stopper ①



2. Put the button-type battery(+) mark upward into the Battery Holder.



3. Insert the Battery Holder into the Remote Control.



- ★ Note: Some models are not equipped with remote control, you should ignore the contents about remote control.

XXXXXXXXXXXXXXXXXXXX

XXXXXXXXXXXXXXXXXXXX

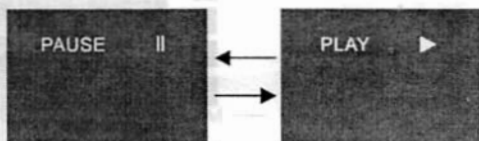
## ★ Power Button

- Press **1** (⏻) button to turn On/Off the power.

XXXXXXXXXXXXXXXXXXXX

## ★ Pause/Play Button

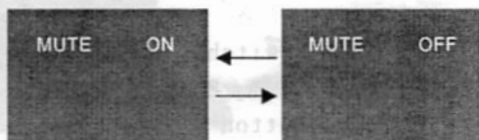
- Press **2** (⏸) button to suspend the playback of CD、MP3、VCD、DVD. Press it again to return to normal playback mode.



XXXXXXXXXXXXXXXXXXXX

## ★ Mute Button

- Press **3** (🔇) button to cut down the sound output, press it once more to resume the previous sound level.



XXXXXXXXXXXXXXXXXXXX

## ★ Menu selector

- Press **4** (⏮) / **5** (⏭) / **6** (⏪) / **7** (⏩) to select your desired menu, then press **8** (ENTER) or press the play button **2** (▶) to confirm.

Note: This function works in main menu mode only. refer to page 13.

XXXXXXXXXXXXXXXXXXXX

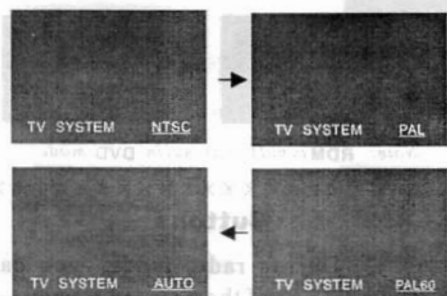


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## ★ Band/System Switch

— During radio mode, press **5** (BAND/SYS) to switch receiving band.

— During the player mode, press **5** (BAND/SYS) button to switch to NTSC, PAL, PAL60 or AUTO system.



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## ★ Volume Increasing/Decreasing

— Press **7** (VOL+ or VOL-) button to increase or decrease the volume level respectively.



\*\*\*\*\*

## ★ Tuning/Selecting Tracks /FastRewind/Forward

— During radio mode, continuously press **8** (← or →) button to manual search a station downward or upward respectively; if press and hold **8** (← or →) button for more than 3 seconds, the radio will automatically search a station downward or upward respectively until it finds a station.

PREW NEXT

— During the playing mode, press and hold **8** (← or →) button to fast rewind or fast forward for you to reach your desired track quickly. When discontinuously press **8** (← or →) button, you can select your desired portion downward or upward respectively



\*\*\*\*\*

## ★ Program Playing

— During CD, VCD mode, you can set the program order to play, you can follow the steps as below: Firstly press **16** (PBC) button, and then press **9** (PGM) button, and the television displays programming P00:00. You can set the program order to play them by using **14** (0 ~ 10+) button, and then press **2** (▶) to play.

*Note: Program doesn't function in playing MP3.*

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## ★ On-Screen Display

— During CD, VCD, DVD mode, press **10** (OSD) button. The display shows single track elapsed time, single track left time or entire disc

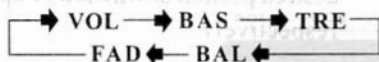
left time, and the track being played and the amount of the whole disc.

*Note: During MP3 mode, only single track elapsed time is displayed in OSD mode.*

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## ★ VOL/BAS/TRE/BAL/FAD/P-EQ Selector

— Repeatedly press **11** (SEL) button to select the desired mode in the following order:



\*\*\*\*\*

## ★ Repeat Playing/AMS

— During DVD mode, firstly Press **12** (Ams/RPT) to repeat the current track being played; Press it again to repeat playing all the tracks. The third press it to cancel the repeating functional. (LCD will display different designs)

— During CD、MP3、VCD mode, firstly press **12** (Ams/RPT) to repeat the current track being played; press it again to cancel the repeating functional.



*Note: In VCD、MP3、CD mode. The initial procedure is repeat playing all the tracks.*

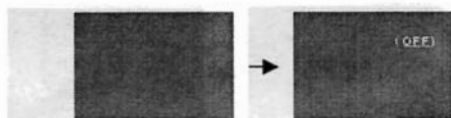
*Note: In radiomode. Press **12** (Ams/RPT) to scan each stored station 10 seconds respectively which stored in Number Buttons.*

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## ★ Random Playing/LOC

— During the playing mode, press **13** (RDM) button to play any track at random. (Viz. The unit plays tracks out of turn.)

LOC only can work during radio mode.



*Note: RDM is not functional in DVD mode.*

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## ★ Number Buttons

— During radio mode, you can select one of the 6 stored stations on each hand by pressing any one of the number button **14**.

— During the playing mode, you can select any track directly by using **14** number button (0~10+). For example, if you need the fifteenth track, you can first press button 10+ and then press button 5, the corresponding track (15)<sup>th</sup> will be played.

*Note: When button 10+ is first pressed, it works as 10+. it works as 20+ when pressed at the second time, the third time ...30+...and the like.*

*In PBC playback mode, Number Button is not functional.*

# Remote Control Operation

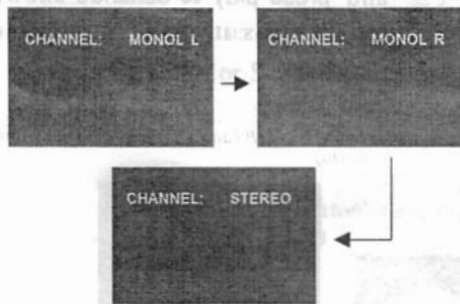
English

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## ★ Left/Right/Stereo Selector

— During the playing mode, continuously press **15** (Audio) can change the sound to left / right speaker or stereo mode.

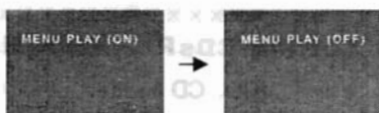
*Note: There are 5 grades surrounding effect in surround mode. During VCD mode you can see the different pictures indicating different effects on the television.*



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## ★ Playing PBC (menu)

— During VCD mode only, when pressing **16** (PBC) button at the first time, PBC playback starts and the menu of entire disc appears on the television. And then you can select your favorite track by using number button **14** (0~10+). When a track is playing, you can press **20** (STOP/RETURN) button to return to the menu if you want to stop to select other tracks. To cancel PBC playing, press **16** (PBC) button again.



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## ★ Subtitle Selector

— During DVD mode, press **17** (SUB-T) button to switch the menu to English, French, China, Thai and Italian



\*\*\*\*\*

## ★ Setting CDs Playback Time

— In VCD, CD mode, press **18** (GOTO) key and set the time when you begin to play the track, and the television will display the time --:-- . Enter your desired time by pressing number button **14** (0~10+). For example, enter: **25:00**, it will automatically start playing the track from point of the twenty-fifth minutes in the disc.

— In DVD playing mode, press **18** (GOTO) key once and input a desired track number, then press **2** (▶||) key to play the DVD from the position corresponding to the track number selected.

— In DVD playing mode, press **18** (GOTO) key twice and input a desired time to play the DVD from the position corresponding to the time selected. For example, press **18** (GOTO) key twice and the television will display the time --:-- . Enter your desired time by pressing number button **14** (0~10+). Then press **2** (▶||) button, it will automatically start playing the track from point of your desired time in the disc.

*Note: No time play function for MP3.*

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## ★ Mode Switch

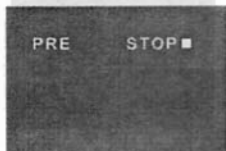
— Press **19** (MODE) button to switch to radio mode or playback mode.

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## ★ Stop the Playback

— In DVD mode, press **20** (■) button to suspend the playback and "press play to continue" shown on TV, press it again to stop the playback.

*Note: In VCD, MP3 and CD, press this key once to stop.*



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## ★ MULT-ANGLE KEY

— In DVD playing mode, press **21** (ANGLE) key, you can watch the DVD content from different angle.

*Note: In VCD, MP3 and CD, it is not the function.*

\*\*\*\*\*

## ★ SLOW REVERSE/ SLOW ADVANCE KEY

— In DVD playing mode, press **22** (SLOW) key once for 2x slow advance, twice for 4x slow advance, third for 8x slow advance, fourthly

for 2x slow reverse, fifthly for 4x slow reverse, sixth for 8x slow reverse, seventh for normal player. — In VCD playing mode, press **22** (SLOW) key once for 1x slow advance, twice for 2x slow advance, Third for 3x slow advance, press **2** (▶||) key to cancel slow reverse / Slow advance function.

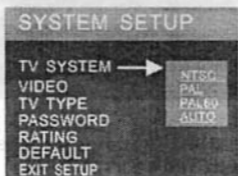
Note: In MP3 and CD, it is not the function.

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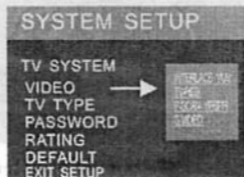
## ★ SET UP KEY

— In playing mode, press **23** key (Setup), menu will be showed on Screen. (see the picture)

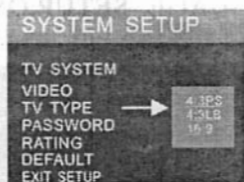
Pressing **7** (ENTER) key to confirm after selecting your desired content: SYSTEM SETUP: TV system, video, TV type, password, rating, default the system can display NTSC, PAL60, PAL, AUTO, when selecting tv system (shown as picture)



the system can display interlace YUV TV-RGB, P-SCAN, YPBPR, S-VIDEO, when selecting video (shown as picture)

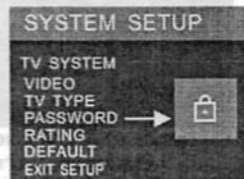


the system can display 4:3PS, 4:3LB, 16:9 to adjust the size of tv, when Selecting tv type (shown as picture)

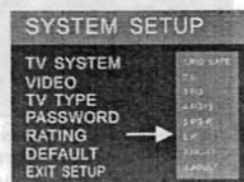


It can set up password when selecting password (Shown as picture)

The password option is initialized locked, and you cannot set the ratings limit or change the password. In order for the Ratings feature work, the password mode must be turned on. If you want to set the ratings limit, you will need to enter the default password, which is 0000, then press Enter to confirm. To change the password, you will be prompted for the old password, then be prompted for a new. Enter a 4-digit number (this is your password).



the system can display Kid to Adult 8 options, when selecting Rating



the system can display restore, when selecting DEFAULT (Shown as picture)



# Remote Control Operation

English

**LANGUAGE SETUP:** OSD language, audio lang, subtitle lang, menu lang, exit setup

the system can display English, Chinese, Germany, Spanish, French, Portuguese for options when selecting OSD language (Shown as picture)



the system can display Chinese, English, Japan, French, Spanish, Portuguese, Latin, German, for options when selecting audio lang (Shown as picture)



the system can display Chinese, English, Japan, French, Spanish, Portuguese, German, and off for options when selecting subtitle (Shown as picture)



the system can display Chinese, English, Japan, French, Spanish, Portuguese, German and Latin for options when selecting menu lang (Shown as picture)



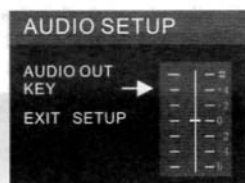
Please select exit option for exit.

**AUDIO SETUP:** audio out, key, exit setup

the system can display spdif/off, spdif/raw, spdif/pcm, when selecting audio out. (Shown as picture)



It can adjust the size when selecting key (Shown as picture)



**VIDEO SETUP:** brightness, contrast, hue, saturation, sharpness, exit setup

It can adjust the brightness when selecting Brightness (Shown as picture)



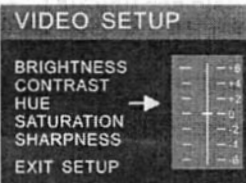
It can adjust the contrast when selecting contrast (Shown as picture)



It can adjust the hue when selecting Hue. (Shown as picture)

# Remote Control Operation

English



It can adjust the saturation when selecting Saturation. (Shown as picture)



It can adjust the sharpness when selecting Sharpness. (Shown as picture)

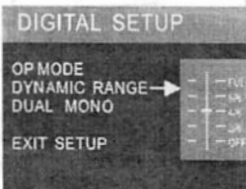


DIGITAL SETUP: op mode, dynamic range, dual mono, exit setup.

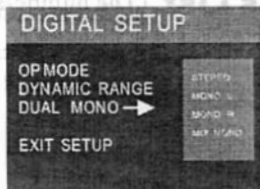
The system will offer LINE OUT and RF REMOD to choose when selecting OP MODE. (Shown as picture)



You can choose DYNAMIC RANGE including FULL, 6/8, 4/8, and 2/8 when selecting DYNAMIC RANGE. (Shown as picture)



The system will offer STEREO, MONO L, MONO R and MIX MONO to choose when selecting DUAL MONO (Shown as picture)



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## ★ TITLE KEY

— In DVD、VCD playing mode,  
Press **24** (TITLE) key to show all tracks 'title' on TV screen. Then press **14** (0~10+) key or press **4** (◀/▶/△/▽) key to choose your desired track number and press **7** (ENTER) key or **2** (▶||) key to start.

XXXXXXXXXXXXXXXXXXXXXXXXXXXX

## ★ ZOOM KEY

— In DVD、VCD playing mode,  
press **25** (ZOOM) key once for 2x Mode, twice for 3x Mode, third time for 4x Mode, fourth time for 1/2x, five times for 1/3x, six times for 1/4x, seven times to off

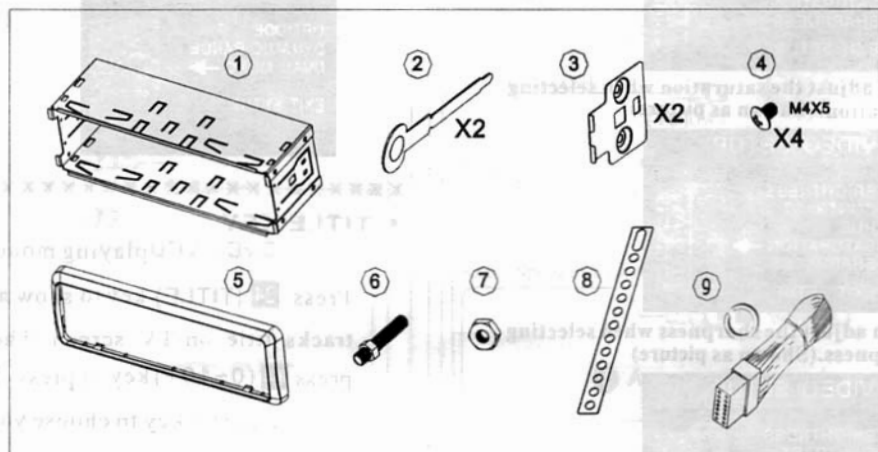
Note: NO ZOOM function CD/MP3 playing mode.

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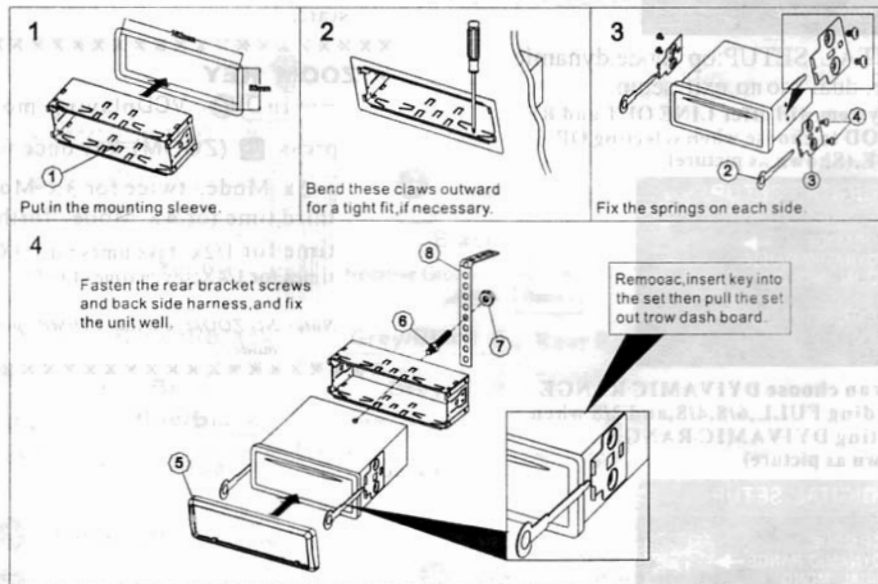


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## Parts List (The numbers in the list are keyed to those in the instructions.)

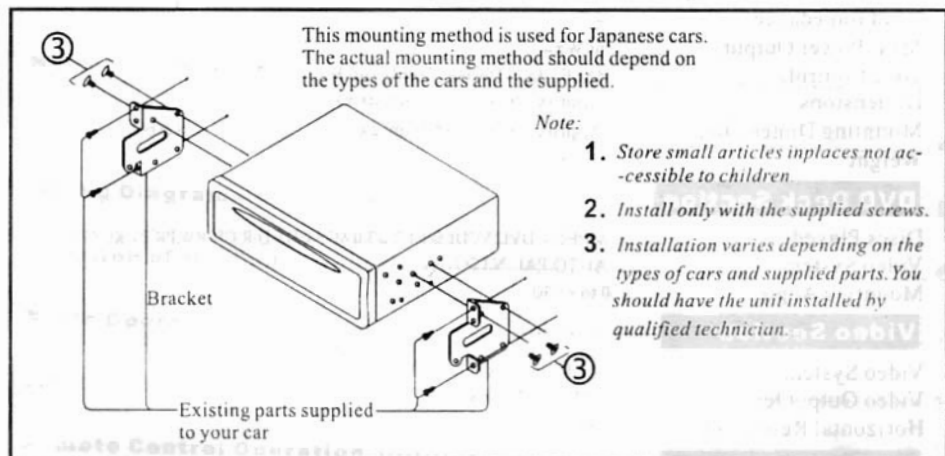


## Mounting Example ①

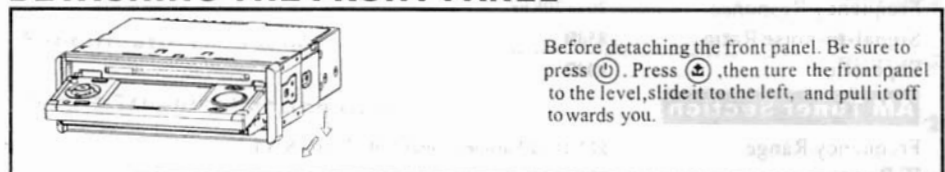




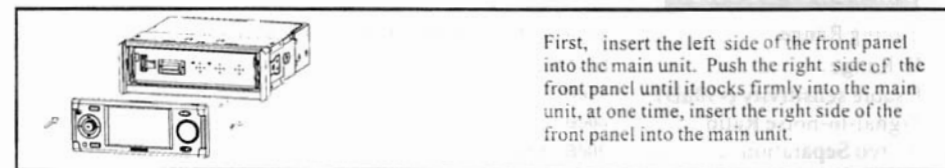
## Mounting Example ②



## DETACHING THE FRONT PANEL



## REPLACING THE FRONT PANEL



# Specification

English

## General

Power Requirements.....	14.4V DC
Load Impedance.....	4 $\Omega$
Max. Power Output.....	60Wx4
Tone Controls.....	$\pm$ 8dB(Bass 100Hz, Treble 10KHz)
Dimensions.....	Approx. 192x178x50mm(dxwxh)
Mounting Dimensions.....	Approx. 169x182x53mm(dxwxh)
Weight.....	Approx. 2kg

## DVD Deck Section

Discs Played.....	MPEG4, DVD, VCD 1.0/1.1/2.0/3.0, MP3, CD, CD-R, CD-RW, PICTURE-CD
Video System.....	AUTO/PAL/NTSC
Mounting Angle.....	0 to $\pm$ 30°

## Video Section

Video System.....	4:3 Letter Box and 4:3 Pan Scan
Video Output level.....	1.0Vp-p 75 ohms
Horizontal Resolution.....	500

## Audio Section

Maximum Output level.....	2Vrms( $\pm$ 3dB)
Frequency Response.....	20 to 20KHz
Signal-to-noise Ratio.....	85dB
Separation.....	80dB

## AM Tuner Section

Frequency Range.....	522-1620(Europe/China), 530-1710(U.S.A)
IF Range.....	450KHz
Usable Sensitivity(-20dB).....	25dB

## FM Tuner Section

Tuning Range.....	87.5-108(Europe/China), 87.5-107.9(U.S.A)
IF Range.....	10.7MHz
Usable sensitivity (-30dB).....	15dB
Signal-to-noise Ratio.....	60dB
Stereo Separation.....	30dB(1KHz)
Frequency Response.....	30-15000Hz

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★ Note: Due to continuous product improvement, specifications and design are subject to change without notice.

# Simple Troubleshooting Guide

English

Problem	Cause/Solution
No power	★ Check and make sure whether the fuse is blown, replace with the proper value if necessary.
Some errors occur in the LCD or no function when pressing the button.	★ Press the RESET button.
Unable to receive stations.	★ Check and make sure whether the antenna is inserted or the antenna is properly connected, if so, insert the antenna or connect it properly.
Poor effect on receiving a station.	★ Antenna may not be the proper length. Make sure the antenna is fully extended or broken: if broken. Replace the antenna with a new one. ★ The broadcasting signal is too weak. ★ The antenna is poorly grounded, check and make sure the antenna is properly grounded at its mounting location.
ACDs cannot be loaded.	★ A CDs is loaded in the mechanism.
No picture.	★ The Video line from main unit to the TV is not connected properly.
The picture noise appears.	★ Improper setting of the color system. Set the color system to "PAL" or "NTSC" according to the connected television. ★ The CDs is dirty or damaged.

- ★ Note: If any of the problem persist after check list had been made, consult your nearest service dealer. Never attempt to disassemble your unit by yourself.